

Port of Los Angeles Clean Air Program

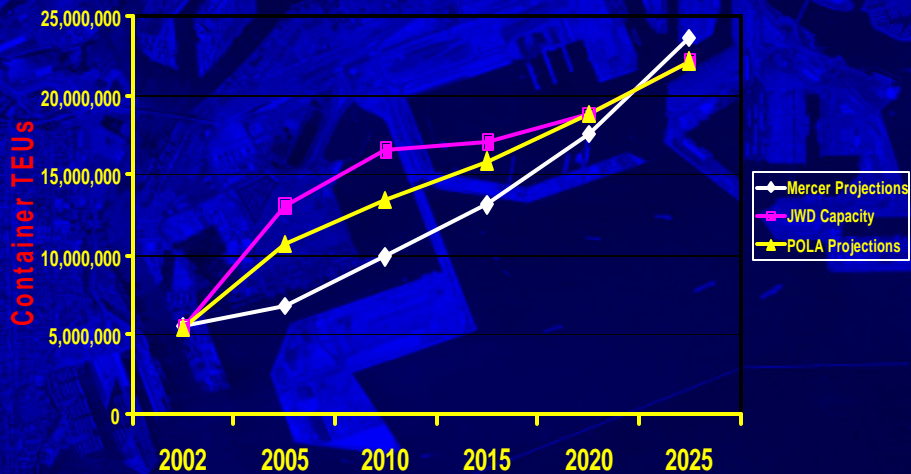
*California Air Resources Board
Maritime Air Quality Technical
Working Group*

03 Dec 03

T. L. Garrett

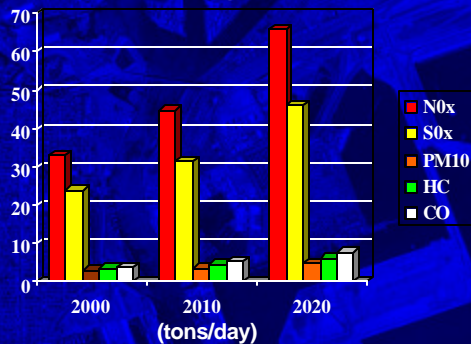


Port of Los Angeles Cargo Growth Projections



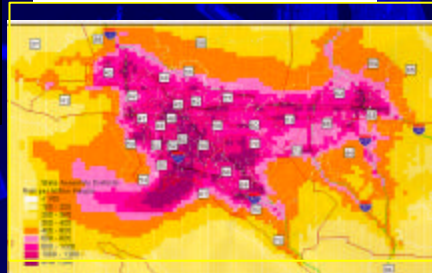
San Pedro Bay Air Quality Issues

Increasing Emissions



(Marine Vessel Emission Inventory
SCAQMD Sep. 1999)

Diesel Air Toxics



(Multiple Air Toxics Exposure Study
SCAQMD Mar. 2000)

POLACAP

- Voluntary
- Feasible (It Has to Work)
- Cost Neutral (Incentives)

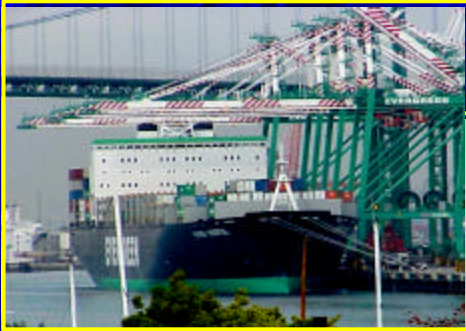
Ship Emission Control



- Speed Reduction
- Low Sulfur Fuels
- Retrofits



Alternative Maritime Power (AMP)



Harbor Work Boats



- Carl Moyer
- Shore Power

Switch Locomotives



- Accelerated Turnover
- New Technologies



Diesel On-Dock Equipment Control



Alternative Fuel Program



POLACAP 2002/2003

Port of Los Angeles \$2,837,500
NOx & PM Match (\$1,000,000)

+ CARB/SCAQMD \$2,477,000

TOTAL
POLACAP \$5,314,500

POLACAP

Emission Benefits

➤ Vessel Speed Reduction	365	ton/yr	NOx
➤ Emulsified Diesel Fuel	250	"	NOx
w/ Diesel Ox. Cat	24	"	PM
➤ Harbor Craft Repowers	100+	"	NOx
	1+	"	PM
➤ AMP	1	ton/dy	NOx
	200	lbs/dy	PM

POLACAP



